

CALENDAR YEAR 2004
EIGHTY-THIRD ANNUAL REPORT
Of The
MARYLAND BUREAU OF MINES



HON. ROBERT L. EHRlich, JR.
Governor of Maryland

DEPARTMENT OF THE ENVIRONMENT
KENDL P. PHILBRICK, Secretary

WATER MANAGEMENT ADMINISTRATION
ROBERT SUMMERS, Director

MINING PROGRAM
C. EDMON LARRIMORE, Program Manager

BUREAU OF MINES
JOHN E. CAREY, Director

FOR THE CALENDAR YEAR 2004

STATE OF MARYLAND
DEPARTMENT OF THE ENVIRONMENT
WATER MANAGEMENT ADMINISTRATION
MINING PROGRAM
BUREAU OF MINES

FROSTBURG, MARYLAND 21532

LETTER OF TRANSMITTAL

To The Honorable:

ROBERT L. EHRLICH, JR.

Governor of Maryland

Sir:

It is my honor to submit herewith the Eighty-Third Annual Report of the Maryland Bureau Of Mines for the period of January 1, 2004 through December 31, 2004, in compliance with the mining laws of the State of Maryland. This report provides information pertaining to the conditions of the coal mining industry within the State.

Respectfully submitted,



John E. Carey, Director

Maryland Bureau of Mines

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EXECUTIVE SUMMARY

During calendar year 2004, Maryland operators produced 5,336,218 tons of coal. Surface coal mining production was 1,964,126 tons — 1,340,112 in Allegany County and 624,014 in Garrett County. Deep coal mining production was 3,372,092 tons, all in Garrett County.

Ninety-nine permitting actions were received and one hundred two permitting actions were issued, including issuance of three original permits, six permit increments, and thirty-one permit amendments totaling 434 acres. Other permit actions include: modifications, renewals and prospecting permits.

One hundred thirty acres were affected, 128 acres backfilled, and 134 acres planted. Bond was totally released on 158 acres. Four permits were completed, with bond being totally released. One permit was revoked.

Eight hundred seventy-nine inspections were performed on coal mining operations. Seventeen Notices of Violations were issued. Thirty Citizen Complaints were received and investigated and two cessation orders were issued. There was one bond forfeiture during this calendar year.

The Land Reclamation Committee met five times and approved four reclamation plans. The Committee also evaluated the revegetation on 303 acres eligible for Phase II bond release, approved 234 acres as meeting the standards for release, and approved 2 reclamation plan changes.

The Abandoned Mine Lands Section had 6 projects under construction during calendar year 2004. Two projects funded by the Bituminous Coal Open-Pit Mine Reclamation Fund were completed totaling \$30,640.50. The Jones Permit 405 Mine Forfeiture Reclamation Project Phase III reclaimed 4.5 acres and completed the final phase of the Jones Coal Permit 405 Bond Forfeiture. The second project regraded and stabilized one acre of abandoned spoil out-slope adjacent to Win-More Mining Company's Permit 433. Four projects funded by the Maryland /Federal Abandoned Mine Reclamation Fund were completed totaling \$2,067,247. The Kitzmiller Coal Waste Stabilization Project reclaimed two large coal refuse piles, eliminating blockages to the North Branch of the Potomac River, as well as eliminating health, safety and environmental hazards at the site. The Bear Hill Road Project stabilized 3 acres of abandoned coal refuse and the stabilization of 200 linear feet of stream channel and floodplain, while collecting and rerouting mine drainage to eliminate health, safety and environmental hazards associated with the site. At the Jackson Mine Fire Containment Project a cut-off barrier was installed to control and prevent migration of an underground mine fire, eliminating safety hazards to a county road and adjacent public utilities. The Davis Acid Mine Drainage Control Project, located two miles north of Midland at the Thelma Davis residence consisted of installation of a subsurface drain to collect Acid Mine Drainage seepage, eliminating soil saturation and flooding impact to the Davis residence.

The Acid Mine Drainage Section (AMDS), formerly the Planning, Research, and Development Section, during the period of Jan. 1, 2004 to Dec. 31, 2004, completed upgrades to two existing acid mine drainage (AMD) remediation systems and construction of a new treatment system. During the year, AMDS also continued designing and permitting for five additional AMD remediation projects; which are scheduled for construction during the summer of 2005. The McDonald Doser in Georges Creek and the Elkick Run II treatment system were upgraded to improve overall operation and maintenance. The Casselman River AMD Project was completed during 2004 and improved 2 miles of the North Branch of the Casselman River. Since AMD remediation efforts were initiated in 1992, a total of 28 mine drainage controls have been constructed and are continuously operated and maintained by the Bureau of Mines personnel. These controls improve 74 miles of AMD impaired stream in the Maryland coal region. Construction and upgrade costs for the work completed by AMDS in 2004 totaled \$161,735.

FOR CALENDAR YEAR 2004

MINING PROGRAM

C. Edmon Lamimore.....	Program Manager, Mining Program
Ruth D. Booth.....	Administrator II
Sallie Shuman.....	Administrative Officer I

BUREAU OF MINES

John E. Carey.....	Director, Bureau of Mines
Barbara E. Murphy.....	Office Secretary III

Abandoned Mine Lands Section

Michael P. Gamer – Section Chief.....	Water Resources Engineer IV
John C. Eilers.....	Energy Resources Administrator I
Bradley Nee.....	Water Resources Engineer III
Mark Camey.....	Water Resources Engineer III
Randall Matthews.....	Conservation Associate IV
Scot Nicol.....	Conservation Aide IV

Permitting and Regulatory Section

Stephen M. Layton – Section Chief.....	Energy Resources Administrator I
Jeffery Snyder.....	Civil Engineer III
Alan V. Hooker.....	Energy Resources Administrator II

Acid Mine Drainage Section

Constance A. Lyons – Section Chief.....	Natural Resources Planner V
Michelle Arrington.....	Envir. Compliance Specialist III
Joseph E. Mills.....	Natural Resources Planner IV
Tamara Davis.....	Natural Resources Planner IV

Laboratory & Support Services

Mary Lynn Pegg – Section Chief.....	Geologist V
Julie O'Connor.....	Chemist IV

Mining Inspection and Compliance

Larry Johnson.....	Envir. Compliance Specialist III
Thomas P. Murray.....	Envir. Compliance Specialist III

**FOR THE CALENDAR YEAR 2004
REPORT OF THE MARYLAND BUREAU OF MINES**

Coal production in Maryland during 2004 totaled 5,336,218.22 tons. Production in 2004 represents an increase of 190,648.72 tons from the 2003 production of 5,145,569.50 tons.

SUMMARY OF 2004 STATISTICS¹

COAL PRODUCTION

Mining Method	Allegany County	Garrett County	Total
Strip	1,340,112.71	624,014.00	1,964,126.71
Deep	.00	3,372,091.51	3,372,091.51
Auger	.00	.00	.00
TOTALS	1,340,112.71	3,996,105.51	5,336,218.22

EMPLOYEES²

Type of Mine	Allegany County	Garrett County	Total
Deep	0	250	250
Strip	168	69	237
TOTALS	168	319	487

¹Reports submitted by Maryland mining operators.

²These figures do not include office, supervisor personnel, or independent truck haulers.

**FOR THE CALENDAR YEAR 2004
TONNAGE BY COAL SEAMS**

Allegheny County

Waynesburg	67,781.96
Sewickley (Tyson)	41,154.17
Redstone	264,676.43
Pittsburgh	775,380.91
Morantown	116,328.21
L. Pittsburgh	65,390.25
Franklin	9,400.78
Harlem	0
Bakerstown	0
Freeport	0
Kittanning	0
Federal Hill	0
Barton	0

TOTAL 1,340,112.71

Garrett County

Sewickley	6,498.63
Pittsburgh	42,897.58
Morantown	37,258.93
L. Pittsburgh	25,086.43
Franklin	156,973.96
Barton	191,360.01
Elk Lick	11,603.95
Harlem	7,473.00
Bakerstown	74,807.89
Upper Freeport	-----
Freeport	3,245,123.31
Kittanning	170,745.00
Redstone	21,234.08
Evans	5,042.74

TOTAL 3,996,105.51

TONNAGE BY BASIN

Lower Youghiogheny	0
Upper Youghiogheny	0
Casselman	0
Casselman (Cherry Creek)	0
Potomac	3,657,709.41
George's Creek	1,678,508.81

TOTAL 5,336,218.22

CALENDAR YEAR 2004
COAL PRODUCTION, MINING AND RECLAMATION STATISTICS FOR ALLEGANY & GARRETT COUNTIES*

*This table includes all permits on which there was production, mining, backfilling or planting activity. This table does not include permits on which all bonds have been released or forfeited; or permits on which bonds are still held but no production or mining or reclamation activity occurred

ALLEGANY COUNTY

Operator	Permit Number	Coal Seam Worked	PRODUCTION (TONS)			Auger	Acres Affected	Acres Backfilled	Acres Planted
			Strip	Deep	Strip				
Barton Mining Company, Inc.	338	Pittsburgh	1,889.90				0.0	0.0	2.0
	427	Pittsburgh	83,301.38				9.0	5.0	11.0
		L.Pittsburgh	47,087.16				--	--	--
		Morantown	26,699.89				--	--	--
		Redstone	60,257.54				--	--	--
Brashear Coal Mines		Sewickley	3,152.27				--	--	--
	264	Franklin	5,669.73				0.0	0.0	0.0
		Redstone	3,115.79				--	--	--
Buffalo Coal Co., Inc.	436	Franklin	3,731.05				3.0	0.0	0.0
	442	Waynesburg	3,493.01				8.0	0.0	0.0
	184	Pittsburgh	0.00				0.0	0.0	2.0
	437	Morantown	17,794.45				4.0	0.0	0.0
Cobra Mining, Inc.		Morantown	4,316.53				--	--	--
		Morantown	1,929.84				--	--	--
	399	Pittsburgh	2,376.27				0.0	0.0	0.0
Fairview Coal Co., Inc.		Redstone	3,918.31				--	--	--
		Morantown	743.51				--	--	--
G & S Coal Company, Inc.	430	Pittsburgh	4,836.75				0.0	0.0	0.0
		Morantown	2,777.55				--	--	--
	440	Pittsburgh	18,755.85				8.0	0.0	0.0
		L.Pittsburgh	17,923.20				--	--	--
Jenkins Development Co., Inc.		Morantown	9,845.25				--	--	--
	411	Waynesburg	63,521.50				7.0	3.0	3.0
	438	Pittsburgh	0.00				1.0	11.0	11.0
Mountaineer Mining Corp.		Pittsburgh	513,957.22				15.0	8.0	8.0
	419	L.Pittsburgh	379.89				--	--	--
Tri-Star Mining, Inc.		Morantown	66,327.52				--	--	--
		Sewickley	12,928.06				--	--	--
		Redstone	25,623.88				--	--	--
	Waynesburg	767.45				--	--	--	

Operator	Permit Number	Coal Seam Worked	PRODUCTION (TONS)			Acres Affected	Acres Backfilled	Acres Planted
			Strip	Auger	Deep			
United Energy Coal, Inc.	207	Pittsburgh	311.52			0.0	24.0	24.0
		Redstone	785.01			--	--	--
	407	Pittsburgh	8,044.64			0.0	0.0	0.0
		Sewickley	1,262.48			--	--	--
		Redstone	28,837.59			--	--	--
	414	Sewickley	1,586.67			0.0	27.0	27.0
		Redstone	12,351.80			--	--	--
	439	Pittsburgh	108,797.41			1.0	0.0	0.0
		Redstone	128,790.12			--	--	--
		Sewickley	22,224.69			--	--	--
Win-More Mining & Const. Co., Inc.	433	Morantown	2,633.17			--	--	--
		Pittsburgh	15,415.52			0.0	0.0	0.0
		Redstone	1,016.39			--	--	--
		Morantown	1,054.95			--	--	--
TOTAL ALLEGANY COUNTY			1,340,112.71			56.0	82.0	88.0

GARRETT COUNTY

Operator	Permit Number	Coal Seam Worked	PRODUCTION (TONS)		Auger	Acres Affected	Acres Backfilled	Acres Planted
			Deep	Strip				
Backbone Mountain, LLC G & S Coal Company, Inc.	DM112	Freeport	64,075.10					
	421	Franklin		15,778.05		0.0	0.0	0.0
	435	Bakerstown		31,029.90		16.0	0.0	0.0
		Eik Lick Harlem		11,603.95 7,473.00		--	--	--
George Creek, Inc.	DM111	Barton	126,968.20			0.0	0.0	0.0
	428	Bakerstown		30,136.74		0.0	0.0	0.0
Mettiki Coal Corporation	DM101	Freeport	3,181,048.21			0.0	10.0	10.0
	441	Bakerstown		13,841.25		4.0	0.0	0.0
Millennium Resources, LLC Moran Coal Company	445	L. Pittsburgh	5,210.01			0.0	0.0	0.0
	424	Pittsburgh	7,145.46			1.0	1.0	1.0
Tri-Star Mining, Inc.		Morantown		2,841.80		--	--	--
		Redstone		5,987.41		--	--	--
	419	Pittsburgh		35,752.12		(See	Allegany	County)
		L. Pittsburgh		19,876.42		--	--	--
Vindex Energy Corporation		Redstone		15,246.67		--	--	--
		Morantown		34,417.13		--	--	--
		Sewickley		6,498.63		--	--	--
		Barton		0.00		0.0	22.0	22.0
	434	Franklin		141,195.91		14.0	6.0	6.0
	444	Evans		5,042.74		--	--	--
	444	Barton		64,391.81		39.0	7.0	7.0
	443	Kittanning		170,745.00		0.0	0.0	0.0
TOTAL GARRETT COUNTY			3,372,091.51	624,014.00		74.0	46.0	46.0
TOTAL BOTH COUNTIES			3,372,091.51	1,964,126.71		130.0	128.0	134.0

FOR CALENDAR YEAR 2004
SUMMARY OF LAND MINED, BACKFILLED, AND PLANTED IN 2004
 (By Geological Basin)

<u>ACRES THIS YEAR</u>					
	Permitted	Affected	Backfilled	Planted	Bond Released*
Allegheny County:					
Georges Creek Basin	119.00	56.00	82.00	88.00	69.00
Garrett County:					
Georges Creek Basin	0.00	54.00	36.00	36.00	0.00
Potomac River Basin	315.00	20.00	10.00	10.00	89.00
Casselman River Basin**	0.00	0.00	0.00	0.00	0.00
Cherry Creek Basin	0.00	0.00	0.00	0.00	0.00
Upper Yough Basin	0.00	0.00	0.00	0.00	0.00
Lower Yough Basin	0.00	0.00	0.00	0.00	0.00
TOTAL GARRETT COUNTY	315.00	74.00	46.00	46.00	89.00
TOTAL BOTH COUNTIES	434.00	130.00	128.00	134.00	158.00

ACRES CUMULATIVE FROM JANUARY 1, 1975 - DECEMBER 31, 2004

Allegheny County:					
Georges Creek Basin	7,227.00	6,082.50	5,321.47	5,437.30	4,488.00
Garrett County:					
Georges Creek Basin	2,746.00	2,655.95	2,403.80	2,723.81	2,643.60
Potomac River Basin	5,064.00	3,687.30	3,715.10	3,854.40	3,955.40
Casselman River Basin**	1,416.60	1,135.00	1,260.50	1,142.20	1,265.80
Cherry Creek Basin**	667.00	671.50	578.90	545.80	659.95
Upper Yough Basin	216.00	157.35	215.35	189.30	261.50
Lower Yough Basin	1,335.00	914.00	1,135.06	1,078.16	855.40
TOTAL GARRETT COUNTY	11,444.60	9,221.10	9,308.71	9,533.67	9,641.65
TOTAL BOTH COUNTIES	18,671.60	15,303.60	14,630.18	14,970.97	14,129.65

*Total Bond Release by the Bureau.

**Total Casselman Geological Basin.

**PERMITTING ACTIVITY
CALENDAR YEAR 2004**

Type of Application	Surface Mines			Underground Mines			Other Facilities			Totals		
	App-Rec.	Issued	Acres	App-Rec.	Issued	Acres	App-Rec.	Issued	Acres	App-Rec.	Issued	Acres
Original Permits	3	3	81	0	0	0	0	0	0	3	3	81
Permit Increments	5	6	239	0	0	0	0	0	0	5	6	239
Modifications/Revisions With Acreage	5	6	25	0	1	89	0	0	0	5	7	114
Modifications/Revisions Without Acreage	32	25		3	3		0	0		35	28	
Transfers	0	0		0	0		1	0		1	0	
Renewals	4	14		2	2		0	1		6	17	
Prospecting Permits	4	3		0	0		0	0		4	3	
Prospecting Letter of Intent	6	6		0	0		0	0		6	6	
Operators License Original	1	0		1	1		0	0		2	1	
Operators License Renewals	27	26		5	5		0	0		32	31	
Totals	87	89	434	11	12	89	1	1	0	99	102	434

**FOR THE CALENDAR YEAR 2004
LAND RECLAMATION COMMITTEE**

Members:

The following members served on the Land Reclamation Committee during 2004:

DEPARTMENT OF THE ENVIRONMENT REPRESENTATIVES:

David Fluke, Chairman, (Jan.- May) Water Management Administration
Ed Larrimore, Chairman, (Sept.-Dec.) Water Management Administration
Mark Carney, Acting Chairman, (May-Sept.) Water Management Administration
Stephen M. Layton, Bureau of Mines

DEPARTMENT OF NATURAL RESOURCES REPRESENTATIVES:

Jim Mullan, Wildlife Division
Robert Webster, Forestry Division
Alan Klotz, Freshwater Fisheries

CITIZEN REPRESENTATIVES

Edgar Harman, Garrett County
Robert Davis, Allegany County

COUNTY REPRESENTATIVES:

Margaret Jamison, Garrett County
Tim Carney, Allegany County

SOIL CONSERVATION DISTRICT REPRESENTATIVES:

Craig Hartsock, Allegany Soil Conservation District
Shaun Sanders, Garrett Soil Conservation District

COAL INDUSTRY REPRESENTATIVES:

Vaughn Miller
Tim Schwinabart

FOR THE CALENDAR YEAR 2004
FUNCTIONS AND DUTIES OF THE LAND RECLAMATION COMMITTEE

The Land Reclamation Committee is responsible for the approval of all reclamation plans submitted, as part of an application for a permit, to the Bureau of Mines and for the oversight of land reclamation activities on surface coal mining operations in Maryland.

The Land Reclamation Committee visits proposed and active mining sites to:

- (1) Determine the suitability of proposed reclamation plans;
- (2) Review mining and reclamation progress; and
- (3) Evaluate the success of revegetation practices.

During 2004, the Land Reclamation Committee conducted site visits on 8 days. These visits included field reviews of 4 proposed mining sites and 40 revegetation sites to evaluate the success of the revegetation.

The Land Reclamation Committee conducts meetings to:

1. Review and approve reclamation plans;
2. Review reclamation progress on active mining permits;
3. Evaluate the revegetation on areas eligible for Phase II bond release;
4. Review the surface coal mining laws, regulations and policies and recommend changes to improve effectiveness of the Maryland Regulatory program; and
5. Recommend research and cost-sharing projects to promote optimum revegetation of mine lands.

During 2004, the Land Reclamation Committee met 5 times. During these meetings, the Land Reclamation Committee approved 4 reclamation plans, evaluated 303 acres of revegetation eligible for Phase II bond release, approved 234 acres as meeting the standards for release, and approved 2 reclamation plan changes.

Reclamation Results Calendar Year 2004		
Bond Release Phase	Applicable Performance Standard	Acreage Released
Phase I	<ul style="list-style-type: none"> • Area restored to Approximate original contour • Topsoil replaced • Area seeded and mulched • Completion of all reclamation work on the permit or the open acre limit is reduced 	85
Phase II	<ul style="list-style-type: none"> • Revegetation established in accordance with approved reclamation plan and standards for success of revegetation met • The lands are not contributing suspended solids to stream flow or runoff outside the permit area • Temporary drainage control structures are removed or all permanent structures are inspected and approved • Land Reclamation Committee has inspected and approved the revegetation on the area 	173
Phase III	<ul style="list-style-type: none"> • Postmining land use/productivity restored • Successful permanent vegetation established • Groundwater recharge, quality and quantity restored • Surface water quality and quantity restored • Applicable bond liability period has expired 	158

FOR CALENDAR YEAR 2004 ABANDONED MINE LAND RECLAMATION

The Maryland Bureau of Mines administers two programs to reclaim and restore land and water resources adversely affected by coal mining practices. These two programs are: (1) *Maryland-Federal Abandoned Mine Reclamation Program*, implemented utilizing federal funds made available by the federal Surface Mining Control and Reclamation Act of 1977 (U.S. Public Law 95-87) under the authority of Environment Article, Title 15, Subtitle 11 of the Annotated Code of Maryland, and (2) *Maryland Mine Reclamation Program* implemented utilizing State funds from the Bituminous Coal Open-Pit Mining Reclamation Fund under the authority of Environment Article, Title 15, Subtitle 5; the Deep Mining Fund under the authority of Environment Article, Title 15, Subtitle 6; and the Mine Reclamation and Water Quality Restoration Loan of 1970 under the authority of Environment Article, Title 15, Subtitle 7.

Maryland - Federal Abandoned Mine Reclamation Program

The Maryland Abandoned Mine Land Reclamation Plan received Federal approval on July 16, 1982, thus enabling Maryland to receive Federal funds for the reclamation of abandoned mine lands. During 2004, grants awarded to Maryland by the U.S. Department of Interior, Office of Surface Mining, provided funds for the following abandoned mine land reclamation projects.

1. **Kitzmiller Coal Waste Stabilization Project**

Location: ½ mile east of Kitzmiller, Garrett County
Size: 15 Acres
Nature: Reclamation of two abandoned coal refuse piles to eliminate blockage to the stream channel of the North Branch of the Potomac River, and eliminate health, safety, and environmental hazards associated with the site.
Cost: \$ 1,775,566
Funds: Fed/State AML Reclamation Fund \$1,529,626.02
Water Quality Restoration Loan \$ 245,939.98
Status: 100% Complete

2. **Bear Hill Road Abandoned Mine Reclamation Project**

Location: 1.5 miles southwest of Jennings, Garrett County
Size: 3 acres
Nature: Stabilization of approximately 3 acres of abandoned coal refuse, stabilization of 200 linear feet of stream channel and floodplain, and collection and routing of mine drainage to eliminate health, safety, and environmental hazards associated with the site.
Cost: \$ 78,135.00
Funds: Federal/State AML Reclamation Fund
Status: 100% complete

3. Jackson Mountain Mine Fire Containment Project

Location: ½ mile South of Lonaconing, Allegany County along the east side of Jackson Mt. Road.
Size: 2 Acres
Nature: Installation of a cut-off barrier to control and prevent migration of an underground mine fire and eliminate safety hazards to a county road and adjacent public utilities.
Cost: \$ 213,546.00
Funds: Federal/State AML Reclamation Fund
Status: 100% Complete

4. Davis Acid Mine Drainage Control Project

Location: 2 miles north of Midland Allegany County, on the west side of MD Rt.936 at the Thelma Davis Residence.
Size: .1 acre
Nature: Installation of a subsurface drain to collect Acid Mine Drainage seepage and eliminate soil saturation and flooding impacts to the Davis Residence.
Cost: \$ 9,650.00
Funds: Federal/State AML Reclamation Fund
Status: 100% Complete

Maryland Mine Reclamation Program

During 2004, the Maryland Bureau of Mines accomplished the following reclamation projects utilizing the Bituminous Coal Open-Pit Mine Reclamation Fund or the Deep Mine Fund.

1. Jones Coal Permit 405 Mine Forfeiture Reclamation Project -Phase III

Location: 2 miles northeast of Selbysport, Garrett Co.
Size: 4.5 acres
Nature: Reclamation of 4.5 acres of Surface coal mine bond forfeiture land associated with the Jones Coal, Inc. Permit SM-94-405 surface coal mine bond forfeiture site.
Cost: \$ 21,221.00
Funds: Bituminous Coal Open-pit Mine Reclamation Fund (Bond Supplement Reserve)
Status: 100% Complete

2. Win-More Mining Reclamation Project

Location: 2 miles south of Frostburg, Allegany County in Midlothian, Md.
Size: 1 acre
Nature: Regrading and stabilization of an abandoned spoil outslope to eliminate off site erosion and siltation to adjacent residences.
Cost: \$ 9,419.50
Funds: Bituminous Coal Open-pit Mine Reclamation Fund
Status: 100% Complete

STATE OF MARYLAND
BUREAU OF MINES
Annual Report 2004
Acid Mine Drainage Section

The Acid Mine Drainage Section (AMDS), formerly the Planning, Research, and Development Section, during the period of Jan. 1, 2004 to Dec. 31, 2004, completed upgrades to two existing acid mine drainage (AMD) remediation systems and construction of a new treatment system. During the year, AMDS also continued designing and permitting for five additional AMD remediation projects; which are scheduled for construction during the summer of 2005. The McDonald Doser in Georges Creek and the Elclick Run II treatment system were upgraded to improve overall operation and maintenance. The Casselman River AMD Project was completed during 2004 and improved 2 miles of the North Branch of the Casselman River. Since AMD remediation efforts were initiated in 1992, a total of 28 mine drainage controls have been constructed and are continuously operated and maintained by the Bureau of Mines personnel. These controls improve 74 miles of AMD impaired stream in the Maryland coal region. Construction and upgrade costs for the work completed by AMDS in 2004 totaled \$161,735.

CASSELMAN RIVER AMD ABATEMENT PROJECT

PAD: MD 007 SGA

Federal Grant: FY 03 AML

Location: Grantsville, Garrett County, Maryland

Size: Approximately 12 Acres

Nature, Goal, Type of Treatment System: Two SAPS Cells and 2 Oxidation Ponds. The system is expected to treat approximately 50 gpm of AMD from a pH of 4.0 to 7.0.

Status: Complete

Contractor: Byco Enterprises, Inc.

Cost: \$126,395

Funding Source: ACSI and Watershed Cooperative Grant through RC&D

BOM Coordinator: Tammy Davis

Directions: Located off the east side of Amish Road, approximately 2.5 miles south from Route 40.

ELCLICK II AMD PROJECT – (STEEL SLAG REVISIONS)

PAD: MD 212 SGA

Federal Grant: ACSI FY 2001

Location: North side of Mt. Zion Road, Garrett County, Maryland.

Size: 2 acres.

Nature, Goal, Type of Treatment System: Add steel slag to the "cell" that was constructed last year, construct a steel slag leach bed at the discharge channel, and add steel slag to the collection ditch.

Status: Complete. Steel Slag will be added in the fall of 2002.

Contractor: Pine Mountain Coal Company

Construction Start: February 2004

Construction End: March 2004

Cost: \$24,750

BOM Coordinator: Joe Mills

Funding Source: Appalachian Clean Streams Initiative Grant.

McDONALD MINE DOSER REVISION PROJECT

PAD: MD-169-SGA

Federal Grant: ACSI FY 2002

Location: One mile south of Barton, MD on the west side of Georges Creek.

Size: 2 acres.

Nature, Goal, Type of Treatment System: Upgrade the intake structure for the AMD, construct an additional "AMD feed" line from a deep mine portal to the doser, improve the discharge to the stream. These changes will improve the effectiveness of the doser. The doser will continue to eliminate the impacts of the AMD from the abandoned McDonald Mine on the water quality of Georges Creek.

Status: Complete.

Contractor: John Duckworth Excavating

Construction Start: March 2004

Construction Completion: March 2004

Cost: \$10,590

BOM Coordinator: Joe Mills

Fund Source: 2002 ACSI Grant

Comments, Problems or Concerns: Change order issued due to excessive material in the silo.

Directions: Go south through Barton, MD on Main Street; continue past the playground and ball field for about ¼ mile to the site.

FOR CALENDAR YEAR 2004

**MINE FOREMAN AND FIRE BOSS
EXAMINATIONS AND CERTIFICATIONS**

The number of Mine Foreman and Fire Boss applicants examined and certified from 1990 through 2004 are identified below.

YEAR	APPLICANTS EXAMINED		APPLICANTS CERTIFIED	
	Mine Foreman	Fire Boss	Mine Foreman	Fire Boss
2004	1	4	3	4
2003	0	0	0	0
2002	12	2	12	2
2001	0	0	0	0
2000	14	8	14	8
1999	17	5	17	5
1998	13	5	13	5
1997	18	5	18	5
1996	0	0	4	0
1995	0	0	14*	0
1994	24	4	24	4
1993	25	8	25	8
1992	0	0	5*	0
1991	6	0	6	0
1990	19	4	18	4

*These applicants were upgraded from Fire Boss to Foreman, based on years of experience, without taking an examination.

**INSPECTION AND ENFORCEMENT ACTIVITIES
2000-2004**

TYPE OF ACTION	2000	2001	2002	2003	2004
Inspections	819	784	960	919	879
Notices of Violations	12	6	9	19	17
Cessation Orders	3	0	1	4	2
Citizen Complaints	36	60	48	27	30
Bond Forfeitures	0	1	0	0	1

MINING PERMITS ISSUED BY YEAR AND PERMITTEE

Permit No.	Year Issued	Permittee
1	1955	The George's Creek Lumber Company*
2	1955	Allegany Engineering Company*
3	1955	B.M.W. Coal Company*
4	1955	Old Hampshire Coal Company, Inc.*
5	1955	Car and Goffelty Construction Co.*
6	1955	M.H. Bigan Coal Company*
7	1955	Moran Coal Company*
8	1955	Allegany Engineering Company*
9	1955	Schell Mining Company, Inc.*
10	1955	B & U Coal Company*
11	1955	Morgan Contracting Company**
12	1955	Romadale Coal Corporation*
13	1955	Cross Fuel Company*
14	1955	Highland Construction Company*
15	1955	Phoenix Big Vein Coal Company (Repermitted 338)*
16	1955	Moran Coal Company*
17	1955	T.J. Cramblett**
18	1955	Moscow-Georges Creek Coal Company*
19	1955	J.R. Thrasher Contracting & Stripping Co.*
20	1956	Moran Coal Company (Repermitted 333)*
21	1956	Schell Mining Company, Inc.**
22	1956	Savage Coal Company*
23	1956	Moran Coal Company*
24	1956	The Georges Creek Coal & Land Co.*
25	1957	Charles T. Clise*
26	1957	Allegany Engineering Company*
27	1957	Goodwill Fuel Company*
28	1957	D.B.&B. Coal Company*
29	1957	Queen George's Creek Coal Company**
30	1957	Mack Coal Company**
31	1957	White Crest Coal Company, Inc.**
32	1957	D.B.&B. Coal Company*
33	1957	Moran Coal Company*
34	1957	Chelsie A. Liller*
35	1957	J.E. George Trucking Company**
36	1957	D.B.&B. Coal Company*
37	1957	J.&M. Coal Company**
38	1957	Casey Construction Company**
39	1958	Moran Coal Company*
40	1958	United Energy Coal, Inc.
41	1958	Buffalo Coal Company, Inc.*
42	1958	Casey Construction Company**
43	1958	Sara-Ki Coal Company, Inc.*

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
44	1958	Yantus & Zubek Coal Company*
45	1958	Moran Coal Company*
46	1958	Casey Construction Company**
47	1958	Moran Coal Company*
48	1958	Moran Coal Company*
49	1958	Sara-Ki Coal Company, Inc.*
50	1958	Laurel Creek Company, Inc.**
51	1958	D.B.&B. Coal Company**
52	1958	Moon and Sons*
53	1959	George L. Smith Contracting Company*
54	1959	The Georges Creek Lumber Company*
55	1959	Moran Coal Company*
56	1959	North Branch Coal Corporation*
57	1959	George Coal Company**
58	1959	Samuel Compton & Company**
59	1959	Hoover & White*
60	1959	Laurel Creek Company, Inc.**
61	1959	The Eddy Fuel Company**
62	1959	J.R. Thrasher Contracting & Stripping Co.*
63	1959	Pittsburgh Coal Company*
64	1959	Mineral Coal Company, Inc., of West Virginia*
65	1959	Laurel Creek Company, Inc.*
66	1959	The Georges Creek Lumber Company*
67	1959	Chelsie A. Liller*
68	1959	Casey Contracting Company**
69	1959	Pine Mountain Coal Company*
70	1959	Opel and Brennerman*
71	1959	The Georges Creek Lumber Company*
72	1959	P.&J. Coal Company*
73	1959	Casey Contracting Company**
74	1959	Goodwill Fuel Company*
75	1959	D.B.&B. Coal Company*
76	1960	Baughman Contracting Company, Inc.*
77	1960	P&K Coal Company*
78	1960	Morgan Contracting Company*
79	1960	Buffalo Coal Company, Inc.*
80	1960	Buffalo Coal Company, Inc.*
81	1960	Randall Robertson*
82	1960	Hoover & White**
83	1960	James E. George*
84	1960	B.M.W. Coal Company, Inc.*
85	1960	Casey Contracting Company**
86	1960	Beener Coal Company*
87	1960	Moran Coal Company, Inc.*
88	1960	D&K Coal Company*

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
44	1958	Yantus & Zubek Coal Company*
45	1958	Moran Coal Company*
46	1958	Casey Construction Company**
47	1958	Moran Coal Company*
48	1958	Moran Coal Company*
49	1958	Sara-Ki Coal Company, Inc.*
50	1958	Laurel Creek Company, Inc.**
51	1958	D.B.&B. Coal Company**
52	1958	Moon and Sons*
53	1959	George L. Smith Contracting Company*
54	1959	The Georges Creek Lumber Company*
55	1959	Moran Coal Company*
56	1959	North Branch Coal Corporation*
57	1959	George Coal Company**
58	1959	Samuel Compton & Company**
59	1959	Hoover & White*
60	1959	Laurel Creek Company, Inc.**
61	1959	The Eddy Fuel Company**
62	1959	J.R. Thrasher Contracting & Stripping Co.*
63	1959	Pittsburgh Coal Company*
64	1959	Mineral Coal Company, Inc., of West Virginia*
65	1959	Laurel Creek Company, Inc.*
66	1959	The Georges Creek Lumber Company*
67	1959	Chelsie A. Liller*
68	1959	Casey Contracting Company**
69	1959	Pine Mountain Coal Company*
70	1959	Opel and Brenneman*
71	1959	The Georges Creek Lumber Company*
72	1959	P.&J. Coal Company*
73	1959	Casey Contracting Company**
74	1959	Goodwill Fuel Company*
75	1959	D.B.&B. Coal Company*
76	1960	Baughman Contracting Company, Inc.*
77	1960	P&K Coal Company*
78	1960	Morgan Contracting Company*
79	1960	Buffalo Coal Company, Inc.*
80	1960	Buffalo Coal Company, Inc.*
81	1960	Randall Robertson*
82	1960	Hoover & White**
83	1960	James E. George*
84	1960	B.M.W. Coal Company, Inc.*
85	1960	Casey Contracting Company**
86	1960	Beener Coal Company*
87	1960	Moran Coal Company, Inc.*
88	1960	D&K Coal Company*
89	1960	Brenneman Brothers*

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
90	1960	Mack Coal Company*
91	1960	Clarence Rodamar*
92	1960	James E. George*
93	1961	Casey Contracting Company**
94	1961	Winner Brothers*
95	1961	Moran Coal Company, Inc.*
96	1961	Big Vein Coal Company*
97	1961	Maryland Fuel Company, Inc.*
98	1961	Yantus-Zubek Coal Company*
99	1961	J.R. Thrasher Contracting & Stripping Co.*
100	1961	Trefall Bros., Inc.*
101	1961	Mack Coal Company*
102	1961	C.A. Liller Company*
103	1961	Cross & Brumage Coal Company*
104	1961	Beener Coal Company*
105	1961	D&K Coal Company*
106	1961	Mack Coal Company*
107	1961	Yantus and Zubek*
108	1961	Potomac Mining Company*
109	1962	Casey Contracting Company*
110	1962	Wilhelm Coal Company*
111	1962	The Georges Creek Lumber Company*
112	1962	Clark Coal Company*
113	1962	Casey Contracting Company*
114	1962	Casey Contracting Company*
115	1962	Douglas Coal Company*
116	1962	Red Lion Mining Corporation**
117	1962	Ebensburg Coal and Clay Company*
118	1963	James E. George*
119	1963	Ebensburg Coal and Clay Company*
120	1963	J.R. Thrasher Contracting & Stripping Co.*
121	1963	Moran Coal Company, Inc.*
122	1963	Buffalo Coal Company, Inc.*
123	1963	J.R. Thrasher Contracting & Stripping Co.*
124	1963	Win-More Mining & Construction Co., Inc.*
125	1963	Beener Coal Company*
126	1964	W.R. Nethken and Company, Inc.*
127	1964	Mack Coal Company*
128	1964	J.R. Thrasher Contracting & Stripping Co.*
129	1964	J. Russell Cravener*
130	1964	Chelsie A. Liller*
131	1964	The Georges Creek Lumber Company*
132	1964	Brenneman Brothers*
133	1965	W.R. Nethken and Company, Inc.*
134	1965	Richards and Parnell Coal Company*
135	1965	William Brashear*

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
136	1965	W.R. Nethken and Company, Inc.*
137	1965	G&S Coal Company, Inc.*
138	1966	J.R. Thrasher Contracting & Stripping Co.*
139	1966	J.R. Thrasher Contracting & Stripping Co.*
140	1966	Shallmar Coal Company, Inc.*
141	1966	Randall Robertson**
142	1966	Ace Drilling Coal Company, Inc.*
143	1966	Beener Coal Company*
144	1966	Clarence Rodamer*
145	1967	Ginniman Coal Company*
146	1967	Raymond A. Wolf Mining Company*
147	1967	Menallen Coke Company*
148	1967	Russel Shafer*
149	1967	Homage Coal Co. (Emmett Duppstadt)*
150	1967	Twin States Coal Company**
151	1967	M.F. Fetterolf Coal Company, Inc.*
152	1967	Ebensburg Coal and Clay Company*
153	1968	Raymond A. Wolf Mining Co. (UPRC)*
154	1968	Michael Rostosky*
155	1968	Ginniman & Ware Coal Company*
156	1968	Harold H. Upole Coal Company*
157	1968	T.G.&C. Coal Company, Inc.*
158	1969	Clarence Rodamer Coal Company*
159	1969	Michael Rostosky Coal Company*
160	1969	Russel Shafer Coal Company*
161	1969	Buffalo Coal Company, Inc.*
162	1969	J.R. Thrasher Contracting & Stripping Co.***
163	1969	Buffalo Coal Company, Inc.*
164	1969	Union Coal Company*
165	1970	Win-More Mining & Construction Co., Inc.*
166	1970	Ginniman Coal Company*
167	1970	Upperman Coal Company*
168	1970	Frank Pulford**
169	1970	Winner Bros. Coal Company, Inc.*
170	1970	Russel Shafer*
171	1970	The Chief Coal Company*
172	1970	Mary Ruth Corporation*
173	1970	Oakland Coal Company*
174	1971	Bernard C. Drees*
175	1971	Delta Mining, Inc.*
176	1971	D&K Coal Company, Inc.*
177	1971	T.G.&C. Coal Company, Inc.*
178	1971	Emmett Duppstadt*
179	1971	Somerset Excavating, Inc.*
180	1971	Ayers Coal Company*
181	1971	Delta Mining, Inc.*

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
182	1971	Patriot Mining Company, Inc.*
183	1971	Chief Coal Company*
184	1971	Cobra Mining, Inc.
185	1971	Bessemer Iron & Coal Company*
186	1971	Coal Lick Coal Company*
187	1971	Phillips Big Vein Coal Company*
188	1971	Ace Drilling Coal Company, Inc.*
189	1971	Buffalo Coal Company, Inc.*
190	1971	Buffalo Coal Company, Inc.*
191	1971	Keystone Coal and Development Company (Liability Assumed by Garrett County Roads Department)
192	1971	Ace Drilling Company, Inc.*
193	1972	Wilhelm Coal, Inc.*
194	1972	M.F. Fetterolf Coal Company, Inc.***
195	1972	Buffalo Coal Company, Inc.*
196	1972	Bessemer Iron & Coal Company*
197	1972	Grafton Coal Company*
198	1972	Jet Fuel Coal Company*
199	1972	Bessemer Iron & Coal Company*
200	1972	Chief Coal Company*
201	1972	Brashear Coal Company*
202	1972	Winner Bros. Coal Company, Inc.*
203	1972	Mary Ruth Corporation*
204	1972	Grafton Coal Company*
205	1972	Chief Coal Company*
206	1972	Upperman Coal Company*
207	1972	United Energy Coal, Inc.
208	1973	Sanner Bros. Coal Company*
209	1973	Delta Mining, Inc.*
210	1973	Markat, Inc.*
211	1973	Oakland Coal Company*
212	1973	Bessemer Iron & Coal Company*
213	1973	Clise Coal Company
214	1973	Inter-State Lumber Company*
215	1973	Buffalo Coal Company, Inc.*
216	1973	Brashear Coal Company***
217	1973	Bernard Drees Coal Company*
218	1973	Buffalo Coal Company, Inc.*
219	1973	G&S Coal Company, Inc.*
220	1974	Evans Coal Company*
221	1974	Bridgeview Coal Company*
222	1974	John Duckworth Coal Company*
223	1974	Edward Mikel*
224	1974	Delta Mining, Inc.*
225	1974	Northwest Coal Company, Inc.*
226	1974	Thrasher Coal Company**

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
227	1974	Winner Bros. Coal Company, Inc.*
228	1974	Bittinger Coal Company*
229	1974	Charles M. Filsinger*
230	1974	G&H Coal Company, Inc.*
231	1974	Hi-Note, Inc.*
232	1974	Buffalo Coal Company, Inc.*
233	1974	Oliver Mining Company**
234	1974	Clise Coal Company*
235	1974	Markat, Inc.*
236	1974	Delta Mining, Inc.*
237	1974	Bridgeview Coal Company*
238	1974	Burnham Coal Company, Inc.*
239	1974	Highland Mining*
240	1974	Buffalo Coal Company, Inc.*
241	1975	Buffalo Coal Company, Inc.*
242	1975	Hopwood Strip Mine, Inc.**
243	1975	Ponderosa Coal Company, Inc.*
244	1975	Markat, Inc.*
245	1975	Phillips Coal, Inc.*
246	1975	Lambert Coal Company*
247	1975	United Energy Coal, Inc.
248	1975	Buffalo Coal Company, Inc.*
249	1975	Cobra Fuels*
250	1975	Laoc Coal Company*
251	1975	Tower Resources, Inc.*
252	1975	Phillips Coal, Inc.*
253	1975	Pine Mt. Coal Company*
254	1975	T.G.&C. Coal Company*
255	1975	Allegheny Mining Company*
256	1975	Bridgeview Coal Company*
257	1975	A&R Coal Company*
258	1975	Clinton Coal Company**
259	1975	Tower Resources, Inc.*
260	1975	Yough Tree Farm*
261	1975	Russel Shafer***
262	1975	Northwest Coal Company**
263	1975	Allegheny Mining Corporation*
264	1975	Brashear Coal Company
265	1975	Bittinger Coal Company*
266	1975	Delta Mining, Inc.*
267	1975	Bittinger Coal Company*
268	1975	Clyde Marsh Coal Company*
269	1975	Hungry Hollow Coal Company*
270	1975	Clise Coal Company*
271	1975	A&R Coal Company*
272	1975	Action Mining, Inc.*

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
273	1975	Win-More Mining & Construction
274	1975	Evans Coal Company*
275	1975	Buffalo Coal Company, Inc.*
276	1975	Buffalo Coal Company, Inc.*
277	1975	Allegheny Mining Corporation *
278	1976	Inter-State Lumber Company*
279	1976	Buffalo Coal Company, Inc.*
280	1976	Delta Mining, Inc.*
281	1976	Rondell Company*
282	1976	Phillips Coal, Inc.*
283	1976	G&H Coal Company, Inc.*
284	1976	Tower Resources, Inc.*
285	1976	Clinton Coal Company**
286	1976	Winner Bros. Coal Company, Inc.*
287	1976	T.L. Moran, Inc.*
288	1976	Delta Mining, Inc.*
289	1976	Pine Mt. Coal Company*
290	1976	Delta Mining, Inc.*
291	1976	George Nolan**
292	1976	Alexander Coal Co.*
293	1976	Pine Mt. Coal Company*
294	1976	Arlen Miller***
295	1976	Action Mining, Inc.*
296	1976	Bessemer Iron & Coal Company**
297	1977	Oakland Coal Company *
298	1977	Bittinger Coal Company*
299	1977	Inter-State Lumber, Inc.*
300	1977	Garbart Coal Company*
301	1977	Pine Mt. Coal Company*
302	1977	L.C. Coal Company, Inc.*
303	1977	Ginniman Brothers Coal Company**
304	1977	Buffalo Coal Company, Inc.*
305	1977	Wood Products, Inc.*
306	1977	Bridgeview Coal Company*
307	1977	T.L. Moran, Inc.*
308	1977	Best Coal Stripping, Inc.**
309	1977	Delta Mining, Inc.*
310	1977	Oakland Coal Company*
311	1977	Primrose Coal Company*
312	1977	R.A.K. Coal Company, Inc.**
313	1977	G&S Coal Company*
314	1977	Wilhelm Coal, Inc.**
315	1977	Clise Coal Company*
316	1977	Brawal Mining, Inc.*
317	1977	John R. Livingston**
318	1977	Winner Bros. Coal Company, Inc.*

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
319	1977	John Duckworth Coal Company*
320	1977	Kelley Enterprises*
321	1978	Delta Mining, Inc.*
322	1978	Bridgeview Coal Company*
323	1978	Ayers Coal Company*
324	1978	John Duckworth Coal Company*
325	1978	G&S Coal Company, Inc.*
326	1978	Buffalo Coal Company, Inc.
327	1978	Buffalo Coal Company, Inc.*
328	1978	Buffalo Coal Company, Inc.
329	1978	Winner Bros. Coal Company, Inc.*
330	1978	Inter-State Lumber Company*
331	1978	R.A.K. Coal Company***
332	1978	Seneca Mining Company*
333	1978	Westvaco Corporation*
334	1978	Buffalo Coal Company, Inc.*
335	1978	Inter-State Lumber Company**
336	1978	Inter-State Lumber Company*
337	1978	Kirby Energy, Inc.*
338	1978	Barton Mining Company, Inc.
339	1978	Wilhelm Coal, Inc.*
340	1978	Fetterolf Mining, Inc.*
341	1979	Eastern Mining Systems, Inc.**
342	1979	Primrose Coal Company*
343	1979	L.C. Coal Company*
344	1979	Bridgeview Coal Company*
345	1979	Delta Mining, Inc.**
346	1979	Inter-State Lumber Company*
347	1979	Kelley Enterprises*
348	1979	Schwinabart & Green, Joint Venture*
349	1979	Wilhelm Coal, Inc.**
350	1980	Bridgeview Coal Company*
351	1980	Winner Bros. Coal Company, Inc.*
352	1980	John Duckworth Coal Company*
353	1980	Winner Bros. Coal Company, Inc.*
354	1980	Brawal Mining, Inc.*
355	1980	Hi-Note, Inc.*
356	1980	G&S Coal Company, Inc.***
357	1980	Richard Duckworth Coal Company*
358	1980	Bridgeview Coal Company*
359	1980	Buffalo Coal Company, Inc.
360	1980	Buffalo Coal Company, Inc.*
361	1980	Pamela Mines, Inc.**
362	1980	Alpha Mining, Inc.*
363	1980	Pamela Mines, Inc.**

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
364	1980	John Duckworth Coal Company*
365	1980	G&S Coal Company, Inc.
366	1980	Buffalo Coal Company, Inc.*
367	1980	Buffalo Coal Company, Inc.
368	1980	United Energy Coal, Inc.
369	1980	Bittinger Coal Company*
370	1982	Keystone Mt. Development Company*
371	1982	Eagle Mining, Inc.*
372	1982	John Duckworth Coal Company
373	1982	Kirby Energy, Inc. **
374	1982	Winner Bros. Coal Company, Inc. *
375	1982	Win-More Mining & Construction Company *
376	1982	Jones Coal, Inc.**
377	1982	Allegheny Mining Corporation*
378	1982	Delta Mining, Inc.**
379	1982	Masteller Coal Company*
380	1982	Fairview Coal Company (Repermitted 399)*
381	1982	Richard Duckworth Coal Company*
382	1983	Pine Mt. Coal Company*
383	1983	Allegheny Mining Corporation*
384	1983	Evans Coal Company*
385	1983	Winner Bros. Coal Company, Inc.
386	1983	Jones Mining, Inc.*
387	1983	Hilltop Construction Company**
388	1983	Fetterolf Mining, Inc.*
389	1983	Winner Bros. Coal Company, Inc.*
390	1983	C.J. Merlo, Inc.*
391	1983	Oak Springs Coal Company*
392	1984	Westvaco Resources, Inc.*
393	1984	Patriot Mining Company, Inc.
394	1984	Action Mining, Inc.*
395	1984	Stan-Jan Excavating, Inc.*
396	1984	Allegheny Mining Corporation*
397	1985	Michael R. McGowan*
398	1985	Brashear Coal Company
399	1985	Fairview Coal Company
400	1985	Delta Mining, Inc.*
401	1985	Buffalo Coal Company, Inc.***
402	1985	Pine Mt. Coal Company*
403	1985	T.D. Mining Company**
404	1986	Clise Coal Company
405	1986	Jones Coal, Inc.**
406	1986	Patriot Mining Company, Inc.*
407	1986	United Energy Coal, Inc.
408	1986	Tri Star Mining, Inc.*
409	1986	Buffalo Coal Company, Inc.*

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
410	1987	J. Walter Wassell*
411	1987	Jenkins Development Company
412	1987	John Duckworth Coal Company***
413	1988	Buffalo Coal Company, Inc.*
414	1989	United Energy Coal, Inc.
415	1989	Pine Mt. Coal Company*
416	1989	Action Mining, Inc.*
417	1989	Tri Star Mining, Inc.*
418	1991	Tri Star Mining, Inc.*
419	1991	Tri Star Mining, Inc.
420	1991	Pine Mt. Coal Company
421	1992	G&S Coal Company, Inc.
422	1992	Buffalo Coal Company, Inc.
423	1992	United Energy Coal, Inc.
424	1995	Pine Mt. Coal Company
425	1995	Tri Star Mining, Inc.*
426	1996	Tri Star Mining, Inc.*
427	1996	Barton Mining Company, Inc.
428	1997	Mettiki Coal, LLC
429	1997	Tri Star Mining, Inc.
430	1998	G&S Coal Company, Inc.
431	1998	Patriot Mining Company, Inc.
432	1999	Barton Mining Company, Inc.
433	1999	Win-More Mining & Construction
434	1999	Tri Star Mining, Inc.
435	2000	G&S Coal Company, Inc.
436	2000	Brashear Coal Mines
437	2001	Cobra Mining, Inc.
438	2001	Mountaineer Mining Corp.
439	2001	United Energy Coal, Inc.
440	2001	G&S Coal Company, Inc.
441	2002	Millennium Resources, LLC
442	2002	Buffalo Coal Company, Inc.
443	2002	Vindex Energy Corporation
444	2003	Tri Star Mining, Inc.
445	2004	Moran Coal Company
446	2004	Moran Coal Company

DEEP MINES

DM 101	1977	Mettiki Coal, LLC
DM 102	1977	Masteller Coal Company*
DM 103	1977	Mt. Top Coal Company*
DM 104	1977	Mettiki Coal Corporation
DM 105	1977	Mettiki Coal Corporation
DM 106	1978	A&J Coal Corporation**
DM 107	1982	Masteller Coal Company*
DM 108	1989	Anker West Virginia Mining Co., Inc.

DM 109	1991	Patriot Mining Company, Inc.
DM 110	1992	Masteller Coal Company **
DM 111	2000	George Creek, Inc.
DM 112	2003	Backbone Mountain, LLC

<u>Permit No.</u>	<u>Year Issued</u>	<u>Permittee</u>
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TIPPLES AND GOB PILES

SC-83-101	1983	Buffalo Coal Company*
SC-83-102	1983	Buffalo Coal Company*
SC-83-103	1983	Buffalo Coal Company*
SC-83-104	1983	Buffalo Coal Company
SC-83-105	1983	Buffalo Coal Company*
SC-83-106		Permit Not Issued
SC-83-107	1983	Delta Coal Sales, Inc.**
SC-83-108	1984	Delta Coal Sales, Inc.*
SC-83-109		Permit Not Issued
SC-83-110	1983	United Energy Coal, Inc.
SC-83-111	1983	Westvaco Corporation*
SC-83-112	1983	United Energy Coal, Inc.*
SC-83-113		Permit Not Issued
SC-83-114	1984	Ever, Inc.*
SC-83-115		Permit Not Issued
SC-87-116	1987	John Duckworth Coal Company
SC-87-117	1987	Tri Star Mining, Inc.
SC-87-118	1987	Patriot Mining Company, Inc.

* Operation Completed and Bond Released

** Forfeiture of Bond

*** Not Activated